

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/529,476	12/21/2005	Ulrike Hees	268082US0PCT	8176	
22850 7590 08/24/2007 OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAM	EXAMINER	
			NGUYE	NGUYEN, TRI V	
ALEXANDRIA	A, VA 22314		ART UNIT PAPER NUMBER		
		1751			
		•	NOTIFICATION DATE	DELIVERY MODE	
			08/24/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

1) Responsive to communication(s) filed on 5/29/07 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		Application No.	Applicant(s)				
Tri V. Nguyen 1751		10/529,476	HEES ET AL.				
- The MALING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisor of 30° RF1 130°, in no worth, rowers, may a reply be limely filled in the Communication of 30° RF1 130°, in no worth, rowers, may a reply be limely filled in 10° period to reply is specified above, the maximum statutory period will apply and will expire SIX (8) MONTHS from the maling date of this communication. Fallute to reply when the set of excended period for reply will by statutes, cause are application for Set 70° RF1 170° Mills 10° Mil	Office Action Summary	Examiner	Art Unit				
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DETAILED ACTION

Response to Amendment

1. In the amendment filed on 05/29/2007, Claim 1 has been amended; Claims 9-22 have been added and Claims 2-4 have been cancelled. The currently pending claims considered below are Claims 1 and 5-22.

The rejection under 112(2) of claims 1-8 has been mooted by the amendment

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 5 and 7 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-2 and 5-6 of U.S. Patent No. 6,607,565 in view of Mischke et al. (US 5,508,389). Claims 1-2 and 5-6 of the '565 reference are an inkjet printing and a sublimation transfer printing respectively. The '565 reference fails to teach the molecular weight component B. The Mischke et al. reference disclose a condensation product of naphthalenesulfonic acid and formaldehyde with a

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molecular weight of 350 to 35,000. It would have been obvious to a skilled artisan to optimize the molecular weight of the condensation product to arrive at the desired viscosity prevention absent of unexpected results.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 5-12 and 14-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Herrmann et al. (US 6,607,565) in view of Mischke et al. (US 5,508,389) or Buhler et al. (US PCT/EP01/07136 the US equivalent 2003/0162951 is referred from hereon).

Herrmann et al. disclose an inkjet process and a sublimation transfer printing on a textile with a composition comprising 0.1 to 30% by weight of an anthraquinone or quinophthalone which are free from ionic groups dye (component A), 0.1 to 20% by weight of a dispersant (component B), 10 to 90% by weight of a mono- or polyhydric alcohol and optionally water (see abstract). Hermann et al. disclose the product of naphthalenesulfonic acid and formaldehyde condensation as component B (col 4, lines 33 et seq.). Herman et al. disclose the customary agents such as foam inhibitors in the amounts of 1% by weight or less 9col 7, lines 15-21). Hermann et al. disclose the dyes of formula (I) and (II) in the composition (see col 1 and 2). Hermann et al. disclose the product of naphthalenesulfonic acid and formaldehyde condensation as component B (col 4, lines 29 et seq.). Hermann et al. disclose the polyol component such as

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polyethylene glycol (col 5, lines 17-58 and col 7), a surface tension of 30 to 70 Nm/m (col 7, lines 39-41), a viscosity range of 1 to 4 mm²/sec (col 7, lines 36-38) and a pH ranging from 5 to 11 (col 7, lines 42-44).

However, Herrmann et al. do not explicitly disclose a composition that includes component B with an average molecular weight of at least 11 000g/mol and the components in the amounts as those recited by the Applicant.

In an analogous art, Mischke et al. show that dispersants from a condensation product of naphthalenesulfonic acid and formaldehyde with a molecular weight of 350 to 35,000 are well known (Mischke: col 3, line 21 et seq.). It would have been obvious to a skilled artisan to optimize the molecular weight of the condensation product of Herrmann et al. to arrive at the desired viscosity prevention absent of unexpected results.

In an analogous art, Buhler et al. teach additives such as anionic dispersant from a condensation product of naphthalenesulfonic acid and formaldehyde with a molecular weight of 1000 to 100,000 are well known (Buhler: parag. 36). It would have been obvious to a skilled artisan to optimize the molecular weight of the condensation product of Herrmann et al. to arrive at the desired viscosity prevention absent of unexpected results.

Regarding the percentage amounts of the components and ranges in the experimental conditions and properties, it would have been obvious to one of ordinary skill in the art at the time the invention was made to select the portion of the prior art's range which is within the range of applicant's claims because it has been held to be obvious to select a value in a known range by optimization for the best results. As to optimization results, a patent will not be granted based upon the optimization of result effective variables when the optimization is obtained through routine experimentation unless there is a showing of unexpected results which properly rebuts the *prima facie*

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case of obviousness. See *In re Boesch*, 617 F.2d 272, 276, 205 USPQ 215, 219 (CCPA 1980). See also *In re Woodruff*, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936-37 (Fed. Cir. 1990), and *In re Aller*, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955). In addition, a *prima facie* case of obviousness exists because the claimed ranges "overlap or lie inside ranges disclosed by the prior art", see *In re Wertheim*, 541 F.2d 257, 191 USPQ 90 (CCPA 1976; *In re Woodruff*, 919 F.2d 1575, 16USPQ2d 1934 (Fed. Cir. 1990). See MPEP 2131.03 and MPEP 2144.05I.

5. Claims 1, 5-12, 14-17 and 19-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Siegel et al. (US 6, 117,224) in view of Mischke et al. (US 5,508,389) or Buhler et al. (US PCT/EP01/07136 - the US equivalent 2003/0162951 is referred from hereon).

Siegel et al. disclose an inkjet process and a sublimation transfer printing on a textile with a composition comprising 0.1 to 30% by weight of an anthraquinone or quinophthalone which are free from ionic groups dye (component A), 0.1 to 20% by weight of a dispersant (component B), 0.1 to 30% by weight of a mono- or polyhydric alcohol and optionally water (see abstract and col 5, lines 17 et seq.). Siegel et al. disclose the customary agents such as foam inhibitors in the amounts of 1% by weight or less (col 7, lines 15-21). Siegel et al. disclose the dyes of formula (I) and (II) in the composition (see col 1 and 2). Siegel et al. disclose the product of naphthalenesulfonic acid and formaldehyde condensation as component B (col 4, lines 29 et seq.). Siegel et al. disclose the polyol component such as polyethylene glycol (col 5, lines 17-58 and col 7), a surface tension of 30 to 70 Nm/m (col 7, lines 39-41), a viscosity range of 1 to 4 mm2/sec (col 7, lines 36-38) and a pH ranging from 5 to 11 (col 7, lines 42-44).

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However, Siegel et al. do not explicitly disclose a composition that includes component B with an average molecular weight of at least 11 000g/mol and the components in the amounts as those recited by the Applicant.

In an analogous art, Mischke et al. show that dispersants from a condensation product of naphthalenesulfonic acid and formaldehyde with a molecular weight of 350 to 35,000 are well known (Mischke: col 3, line 21 et seq.). It would have been obvious to a skilled artisan to optimize the molecular weight of the condensation product of Siegel et al. to arrive at the desired viscosity prevention absent of unexpected results.

In an analogous art, Buhler et al. teach additives such as anionic dispersant from a condensation product of naphthalenesulfonic acid and formaldehyde with a molecular weight of 1000 to 100,000 are well known (Buhler: parag. 36). It would have been obvious to a skilled artisan to optimize the molecular weight of the condensation product of Siegel et al. to arrive at the desired viscosity prevention absent of unexpected results.

In an analogous art, Buhler et al. teach additives such as anionic dispersant from a condensation product of naphthalenesulfonic acid and formaldehyde with a molecular weight of 1000 to 100,000 are well known (Buhler: parag. 36). It would have been obvious to a skilled artisan to optimize the molecular weight of the condensation product of Herrmann et al. to arrive at the desired viscosity prevention absent of unexpected results. Regarding the percentage amounts of the components and ranges in the experimental conditions and properties, it would have been obvious to one of ordinary skill in the art at the time the invention was made to select the portion of the prior art's range which is within the range of applicant's claims because it has been held to be obvious to select a value in a known range by optimization for the best results. As to optimization results, a patent will not be granted based upon the optimization of result effective variables when the optimization is obtained through routine experimentation

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unless there is a showing of unexpected results which properly rebuts the *prima facie* case of obviousness. See *In re Boesch*, 617 F.2d 272, 276, 205 USPQ 215, 219 (CCPA 1980). See also *In re Woodruff*, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936-37 (Fed. Cir. 1990), and *In re Aller*, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955). In addition, a *prima facie* case of obviousness exists because the claimed ranges "overlap or lie inside ranges disclosed by the prior art", see *In re Wertheim*, 541 F.2d 257, 191 USPQ 90 (CCPA 1976; *In re Woodruff*, 919 F.2d 1575, 16USPQ2d 1934 (Fed. Cir. 1990). See MPEP 2131.03 and MPEP 2144.05I.

6. Claims 1, 5-12 and 14-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kazuo et al. (JP 05-255626 - machine translation provided) in view of Hermann et al. and Mischke et al. or Buhler et al.

Kazuo et al. disclose a inkjet printing process with a composition that includes a disperse dye such as anthraquinone or azo-based (component A), a naphthalenesulfonic acid and formaldehyde condensation product (component B), a glycol (component C), viscosity additives (Component D) and water (see abstract and page 2, parag. 11-15).

However, Kazuo et al. do not explicitly disclose a composition that includes component B with an average molecular weight of at least 11 000g/mol, the various dyes and the components in the amounts as those recited by the Applicant.

In an analogous art, Mischke et al. show that dispersants from a condensation product of naphthalenesulfonic acid and formaldehyde with a molecular weight of 350 to 35,000 are well known (Mischke: col 3, line 21 et seq.). It would have been obvious to a skilled artisan to optimize the molecular weight of the condensation product of Kazuo et al. to arrive at the desired viscosity prevention absent of unexpected results.

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In an analogous art, Buhler et al. teach additives such as anionic dispersant from a condensation product of naphthalenesulfonic acid and formaldehyde with a molecular weight of 1000 to 100,000 are well known (Buhler: parag. 36). It would have been obvious to a skilled artisan to optimize the molecular weight of the condensation product of Kazuo et al. to arrive at the desired viscosity prevention absent of unexpected results.

In an analogous art, Hermann et al. disclose the dyes of formula I and II (see col 1 and 2). the polyol component such as polyethylene glycol (col 5, lines 17-58 and col 7), a surface tension of 30 to 70 Nm/m (col 7, lines 39-41), a viscosity range of 1 to 4 mm2/sec (col 7, lines 36-38) and a pH ranging from 5 to 11 (col 7, lines 42-44). The claims would have been obvious because a particular known technique was recognized as part of the ordinary capabilities of a skilled artisan.

Regarding the percentage amounts of the components and ranges in the experimental conditions and properties, it would have been obvious to one of ordinary skill in the art at the time the invention was made to select the portion of the prior art's range which is within the range of applicant's claims because it has been held to be obvious to select a value in a known range by optimization for the best results. As to optimization results, a patent will not be granted based upon the optimization of result effective variables when the optimization is obtained through routine experimentation unless there is a showing of unexpected results which properly rebuts the *prima facie* case of obviousness. See *In re Boesch*, 617 F.2d 272, 276, 205 USPQ 215, 219 (CCPA 1980). See also *In re Woodruff*, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936-37 (Fed. Cir. 1990), and *In re Aller*, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955). In addition, a *prima facie* case of obviousness exists because the claimed ranges "overlap or lie inside ranges disclosed by the prior art", see *In re Wertheim*, 541 F.2d 257, 191

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USPQ 90 (CCPA 1976; *In re Woodruff*, 919 F.2d 1575, 16USPQ2d 1934 (Fed. Cir. 1990). See MPEP 2131.03 and MPEP 2144.05I.

7. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Siegel et al., Hermann et al. or Kazuo et al. in view of Mischke or Buhler et al. and further in view of Siemensmeyer et al. (US 6,537,331).

Siegel et al., Hermann et al. or Kazuo et al. and Mischke or Buhler et al. disclose the dye preparation of claim 1 but do not explicitly disclose the azo dye of formula (III). In an analogous art, Siemensmeyer et a. disclose a dye preparation with the azo dye of formula (III) (see abstract and col. 8). Because the references teach similar dye compositions, the claim would have been obvious because the substitution of one known element for another would have yielded predictable results to one of ordinary skill in the art at the time of the invention.

Response to Arguments

- 8. Applicant's arguments filed on 05/29/07 have been fully considered but they are not persuasive.
 - a. Regarding claim 1, the present claim "consisting essentially of" language does not necessarily exclude the prior art carboxylic acids because "consisting essentially of" renders the composition open to the inclusion of unspecified ingredients which do not materially affect the basic and novel characteristics of the composition, see *Ex parte* Davis *et al.* (Bd of Appeals), 80 USPQ 448.
 - b. In response to applicant's argument concerning utilization of non analogous art, it has been held that the determination that a reference is from a nonanalogous art is twofold. First, we decide if the reference is within the field of

the inventor's endeavor. If it is not, we proceed to determine whether the reference is reasonably pertinent to the particular problem with which the inventor was involved. In re Wood and Eversole, 202 USPQ 171, 174 (CCPA 1979). In the instant case, the Mischke et al. reference is relied upon to teach that it is well-known that the condensation reaction results in a MW range of 350 to 35, 000.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tri V. Nguyen whose telephone number is (571) 272-6965. The examiner can normally be reached on M-F 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas McGinty can be reached on (571) 272-1029. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-

8300.

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TVK

NVT

August 20, 2007

LORNA M. DOUYON PRIMARY EXAMINER

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